

Rpt. 13.

No. 845

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 27 SEP 1932

Date of writing Report 17th Aug. 1932 When handed in at Local Office 17th Aug. 1932 Port of NAGASAKI.

No. in Survey held at NAGASAKI. Date, First Survey 22nd June Last Survey 6th August 1932
Reg. Book. (Number of Visits.....8.....)

68128 on the Steel Screw Steamer "NAGAYA MARU".

Tons { Gross 6049.31
Net 3729.01

Built at Nagasaki. By whom built Mitsubishi Zosen Kaisha Yard No. 503 When built 1932

Owners Ishihara Gomei Kaisha. Port belonging to Fuchu.

Electric Light Installation fitted by Nagasaki Works, Mitsubishi Zosen Kaisha, Ltd. Contract No. When fitted 1932

System of Distribution Two wire system. ✓

Pressure of supply for Lighting 110 volts, Heating / volts, Power 110 volts. ✓

Direct or Alternating Current, Lighting Direct current ✓ Power Direct current ✓

If alternating current system, state frequency of periods per second /

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes ✓

Generators, do they comply with the requirements regarding rating Yes ✓, are they compound wound Yes ✓

are they over compounded 5 per cent. Yes ✓, if not compound wound state distance between each generator /

Where more than one generator is fitted are they arranged to run in parallel Yes ✓, is an adjustable regulating resistance fitted in series with each shunt field Yes ✓

Are all terminals accessible, clearly marked, and furnished with sockets Yes ✓, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes ✓ Are the lubricating arrangements of the generators as per Rule

Position of Generators Engine room, starboard side. ✓

is the ventilation in way of the generators satisfactory Yes ✓, are they clear of all inflammable material Yes ✓

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators / and /, are the generators protected from mechanical injury and damage from water, steam or oil Yes ✓

are their axes of rotation fore and aft Yes ✓

Earthing, are the bedplates and frames of the generating plant efficiently earthed Yes ✓ are the prime movers and their respective generators in metallic contact Yes ✓

Main Switch Boards, where placed Engine room, starboard, aft of generator. ✓

If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard /

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes ✓

are they protected from mechanical injury and damage from water, steam or oil Yes ✓, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards / and /

are they constructed wholly of durable, non-ignitable non-absorbent materials Yes ✓, is all insulation of high dielectric strength and of permanently high insulation resistance Yes ✓, if semi-insulating material is used, are all conducting parts insulated from the slab

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework Yes ✓, and is the frame effectively earthed Yes ✓

Are the fittings as per Rule regarding:— spacing or shielding of live parts Yes ✓, accessibility of all parts Yes ✓, absence of fuses on back of board Yes ✓, proportion of omnibus bars Yes ✓

individual fuses to voltmeter, pilot or earth lamp Yes ✓, connections of switches Yes ✓

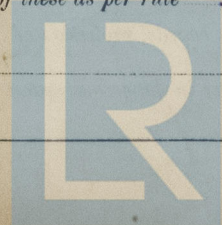
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches A double pole circuit breaker with overload release, reverse current trip and time-lag device and single pole equalizer switch interlocked with the circuit breaker as per rule, and a double pole knife switch for each generator: A double pole knife switch and an enclosed fuse on each pole for each outgoing circuit. ✓

Instruments on main switchboard 2. ✓ ammeters 2. ✓ voltmeters / synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system Lamps. ✓

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules Yes ✓

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule Yes ✓



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Lloyd's Register
Foundation

W1308-0074 1/2

1. portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office.....1

Ref. No.	DESCRIPTION.	No. of wires conductors	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
35	Cut-out for bus-bar lamp.	2	.00181	1	.048	2.1 ✓	26	"	"
36	No.1 Fuse board	2	.02252	7	.064	43.8 ✓	100	"	"
37	No.5 Submain board	2	"	"	"	25.8 ✓	180	"	"
38	No.3 Hatch cargo light	2	.00701	"	.036	10.2 ✓	90	"	"
39	Flex.cord for cargo lamp.	2	.00475	168	.006	3 ✓	72	"	Hemp, braided flex cord.
40	Flex.cord for cargo cluster	2	"	168	"	2.4 ✓	72	"	"
41	No.2 Hatch cargo light	2	.00701	7	.036	7.8 ✓	36	"	"
42	Flex.cord for cargo lamp	2	.00475	168	.006	3 ✓	72	"	Lead covered Hemp braided flex cord.
43	Flex.cord for cargo cluster	2	"	"	"	2.4 ✓	"	"	"
44	No.6 Submain board	2	.00701	7	.036	18 ✓	110	"	Lead covered
45	No.5 Hatch cargo L	2	.00701	7	.036	7.8 ✓	30	"	Lead covered.
46	Flex.cord for Cargo lamp.	2	.00475	168	.006	3 ✓	72	"	Hemp braided flex cord.
47	Flex.cord for cargo cluster	2	"	"	"	2.4 ✓	"	"	"
48	No.7 Submain board	2	.00701	7	.036	24.4 ✓	130	"	Lead covered
49	No.13 Dist board	2	"	"	"	13.2 ✓	36	"	"
50	No.14 " "	2	"	"	"	11.2 ✓	2	"	"
51	No.12 Fuse board	2	"	"	"	8.7 ✓	5	"	"
52	No.3 " " "	2	"	"	"	12 ✓	5	"	"
53	Navigation light	2	"	"	"	2.2 ✓	220	"	"
54	Fore mast head lamp	2	.00322	1	.064	4 ✓	414	"	"
55	" " " "	2	"	1	"	.4 ✓	114	"	Lead covered & armoured
56	Ster,side lamp.	2	"	1	"	.4 ✓	86	"	Lead covered
57	Port " " " "	2	"	1	"	.4 ✓	84	"	"
58	Main mast head lamp	2	"	1	"	.4 ✓	440	"	"
59	" " " "	2	"	1	"	.4 ✓	158	"	Lead covered & armoured
60	Stern lamp	2	"	1	"	.4 ✓	646	"	Lead covered

All Conductors are of annealed copper conforming to British Standard Specification No. 7.
The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.
The foregoing is a correct description.

NAGASAKI WORKS, MITSUBISHI ZOSSEN KAISHA, LTD.

S. Muto
GENERAL MANAGER

Electrical Engineers.

Date *2/9/32*

COMPASSES.

Distance between electric generators or motors and standard compass **73 feet from Motor-generator for Wireless telegraph.**

Distance between electric generators or motors and steering compass **73 " " " " " " "**

The nearest cables to the compasses are as follows:—

A cable carrying **0.2** Ampères **1** feet from standard compass **1** feet from steering compass.

A cable carrying **/** Ampères **/** feet from standard compass **/** feet from steering compass.

A cable carrying **/** Ampères **/** feet from standard compass **/** feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power **Yes**

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted **Yes**

The maximum deviation due to electric currents was found to be **Nil** degrees on **Any and every** course in the case of the standard compass, and **Nil** degrees on **Any and every** course in the case of the steering compass.

NAGASAKI WORKS, MITSUBISHI ZOSSEN KAISHA, LTD.

S. Muto
GENERAL MANAGER

Builder's Signature.

Date *2/9/32*

Is this installation a duplicate of a previous case **No.** If so, state name of vessel **/**

General Remarks (State quality of workmanship, opinions as to class, &c.)

The materials and workmanship are good and the installation has been fitted in accordance with the Rules, tested under full working conditions and found satisfactory.

Plans sent under separate cover of:— Wiring Diagram of Power. Lighting & Cabin Fan.

It is submitted that
this vessel is eligible for
THE RECORD, Elec. light.

cm.
4/10/32.

Total Capacity of Generators **44** Kiloivatts.

The amount of Fee ... **£ 352:79** : When applied for **12. 8. 19. 32**

Travelling Expenses (if any) £ : : When received, **25. 8. 19. 32** *bl*

George Anderson

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Lt.